

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 16482 - L2 Version 2  
Chandra X-Ray Center

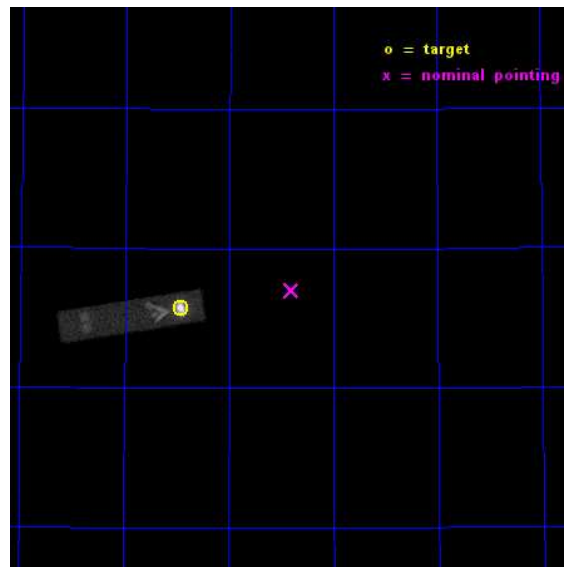
L2 Processing Date : Dec 11 2014

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# 1 Front

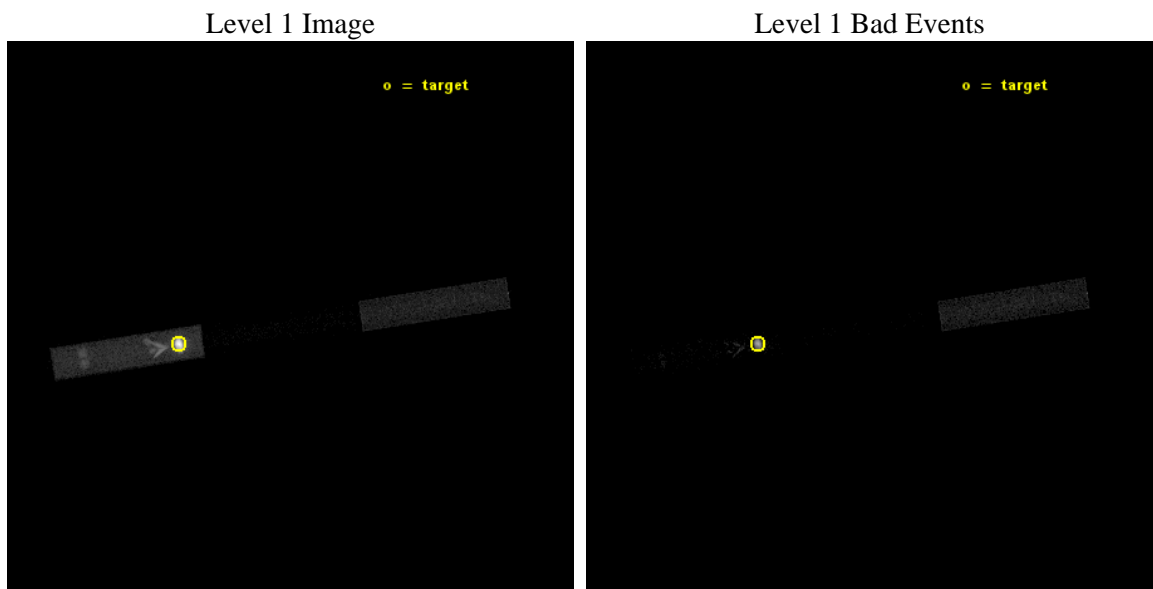
seq_num	291194	Sequence number
obs_id	16482	Observation id
title	AO-15 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	278.70193691814	Nominal RA [deg]
dec_nom	38.851375641906	Nominal Dec [deg]
roll_nom	171.2879881041	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1177.9813151956	[s]
liveltime	484.34103457886	Ontime multiplied by DTCOR
l2events	211954	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	1177.9813151956	[s]
caldbver	4.6.4	&#160	l1events	275212	Number of level 1 events
date	2014-12-12T01:46:50	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

Level 1 Events

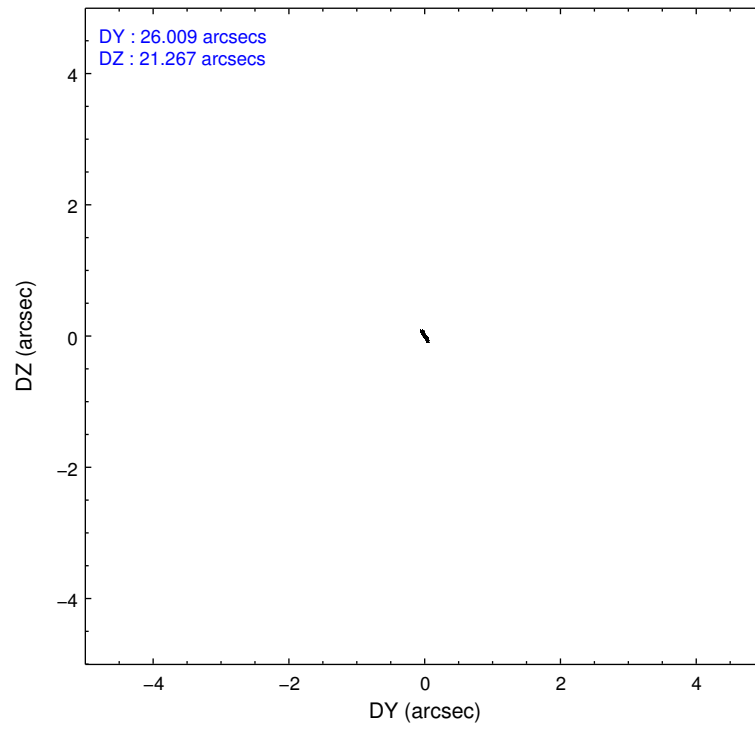
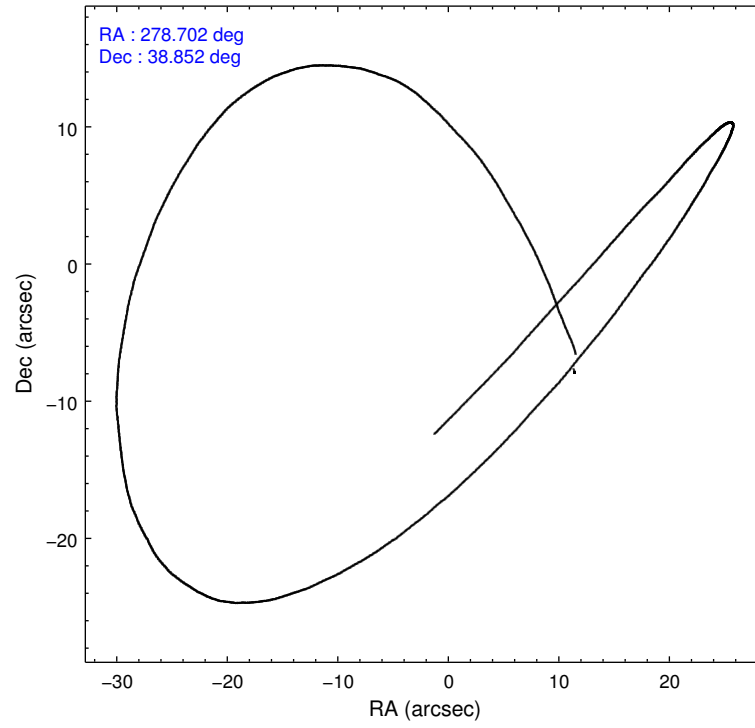
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	262336	281	12595
rejected events	45138	272	12595
rejected %	17%	96%	100%

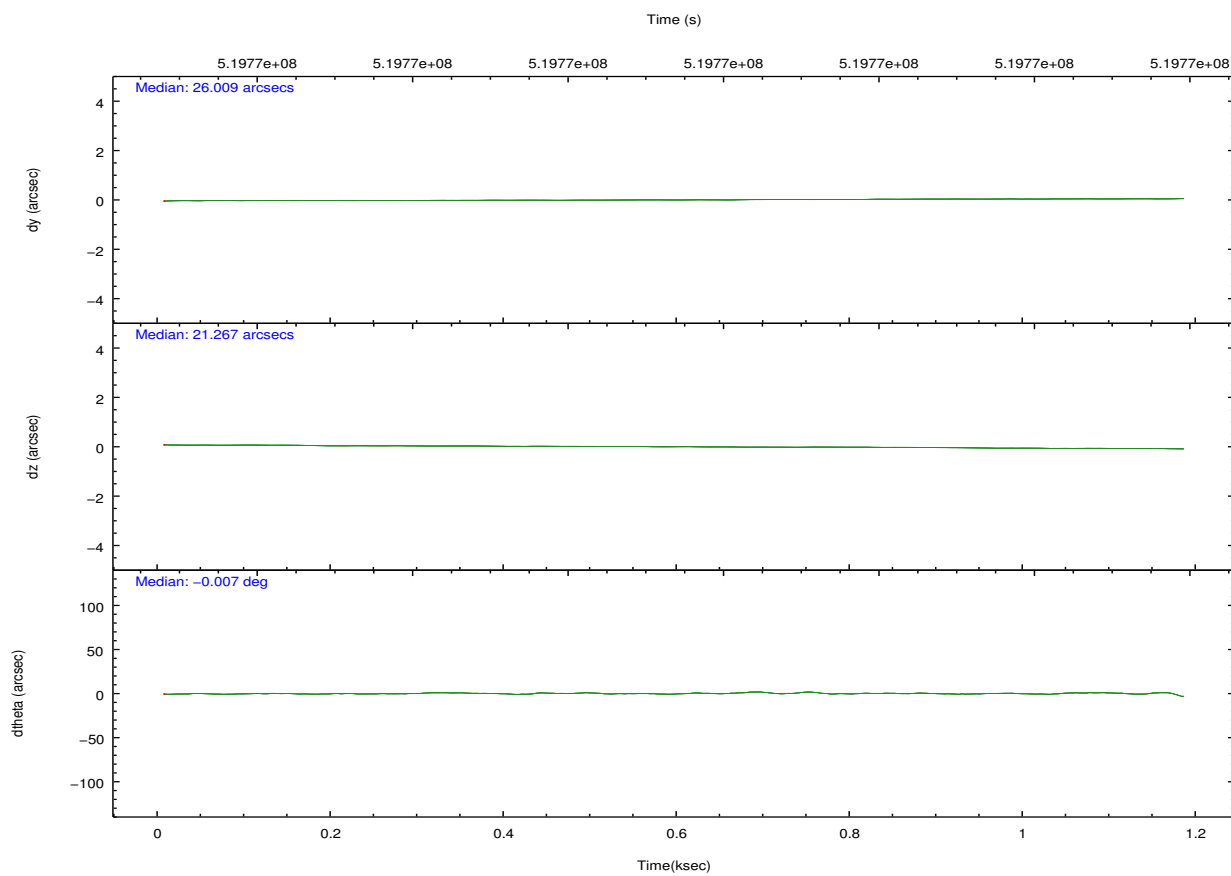
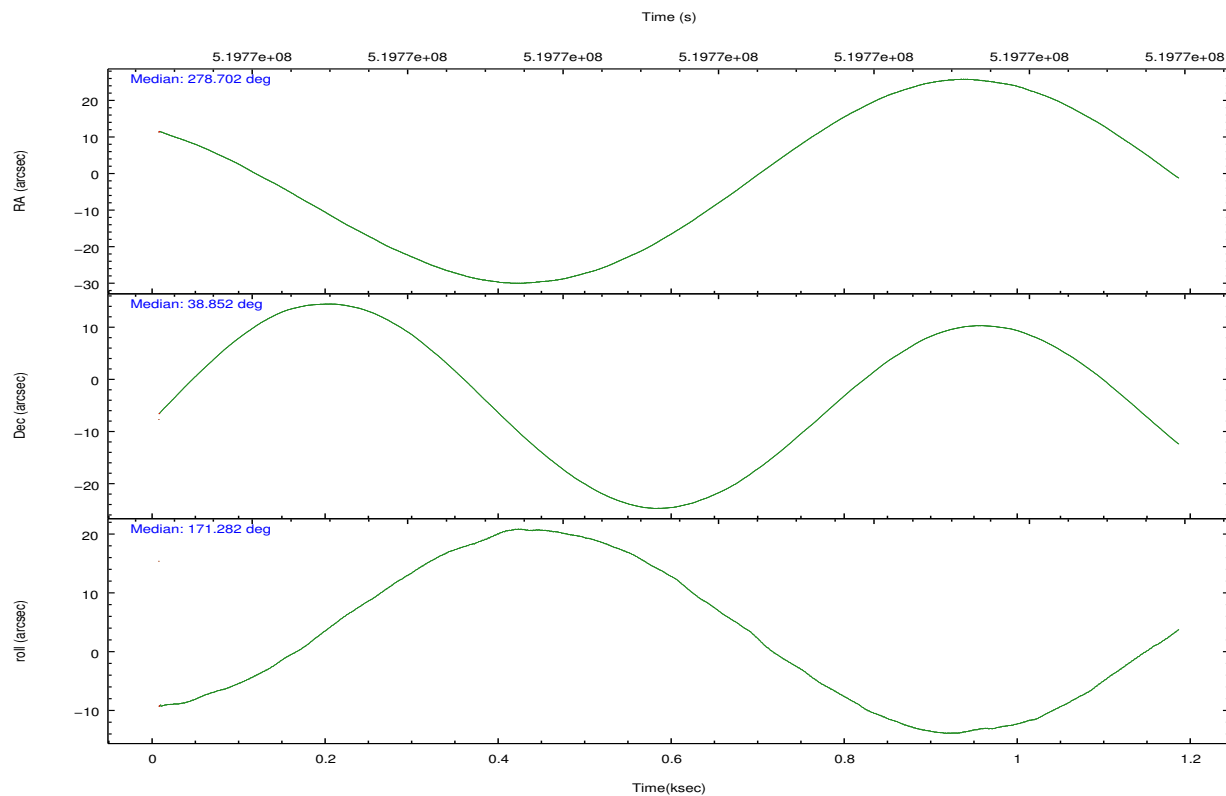
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	278.735184	278.7019369181364
[deg] Pointing Dec	38.862085	38.85137564190575
[deg] Pointing Roll	171.199820	171.2879881040963
[s] Window start time (MET)	517968067.184000	517968067.184000
[s] Window stop time (MET)	523152067.184000	523152067.184000
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	519771931.184000	519771555.21262
Observation start date	2014-06-21T21:04:24	2014-06-21T20:59:15
[s] Observation end time (MET)	519772931.184000	519773211.10022
Observation end date	2014-06-21T21:21:04	2014-06-21T21:26:51

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





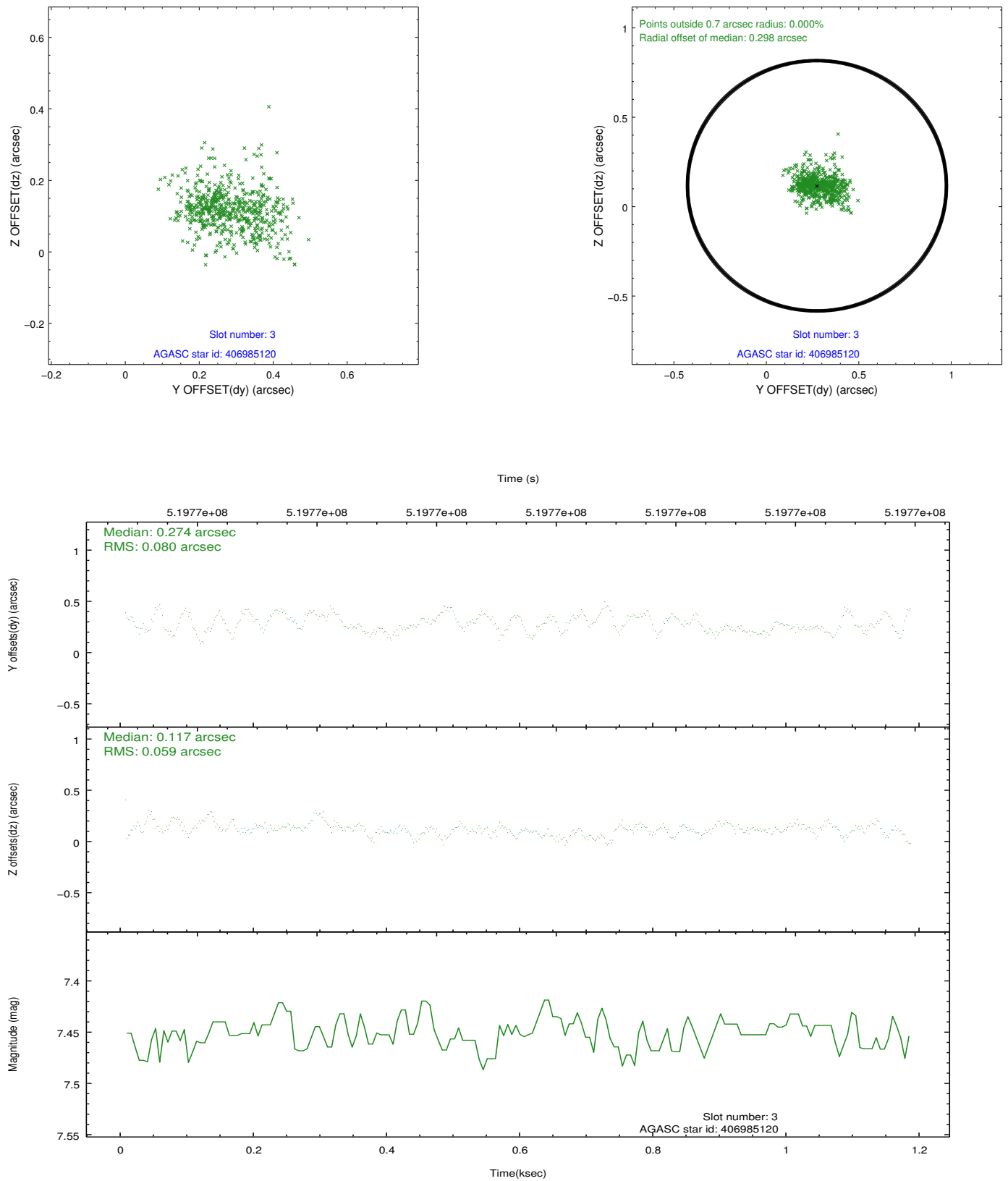
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	6.99	288	-0.025	-0.102	0.007	0.012	0.000000	0.000000	-1180.77	-470.35
1	FID		HRC-S-2	6.97	288	0.365	-0.134	0.004	0.007	0.000000	0.000000	1215.18	-464.51
2	FID		HRC-S-3	7.00	288	0.050	-0.067	0.007	0.012	0.000000	0.000000	-1179.25	557.60
3	GUIDE	used	406985120	7.45	576	0.274	0.117	0.106	0.173	278.839732	38.894839	-270.37	-157.33
4	GUIDE	used	406987272	6.92	576	-0.390	-0.476	0.070	0.115	278.536588	38.437504	319.93	1598.27
5	GUIDE	used	406987656	8.69	574	-0.236	-0.374	0.093	0.144	277.865333	38.378958	2162.70	2090.08
6	GUIDE	used	407510432	8.15	576	0.143	0.243	0.105	0.183	278.762778	39.530640	297.39	-2382.21
7	GUIDE	used	407521232	8.63	572	0.201	0.492	0.101	0.160	279.628883	39.431715	-2138.57	-2418.66

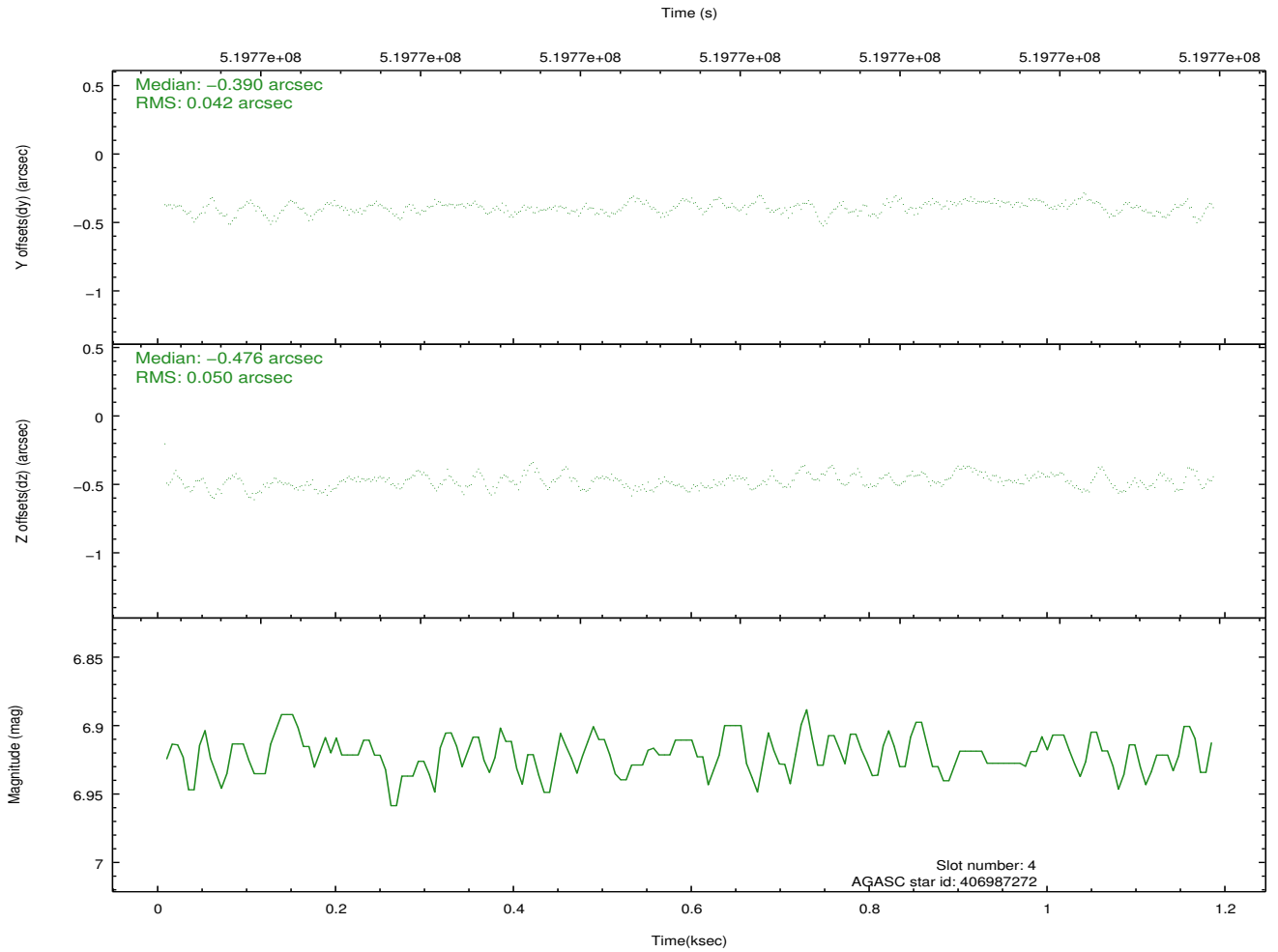
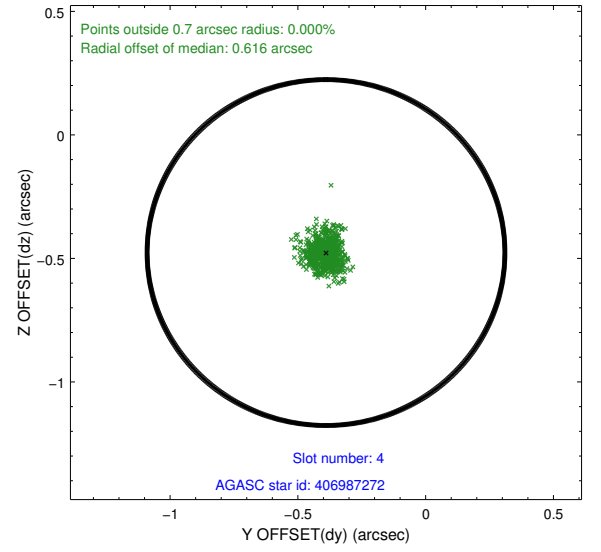
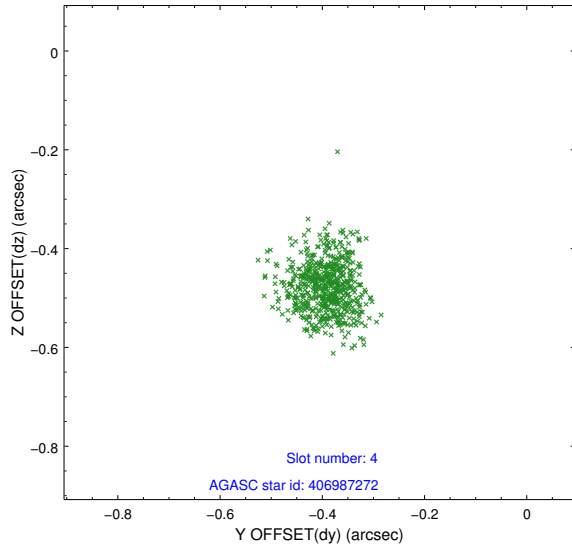


## 2.4 Star Slots

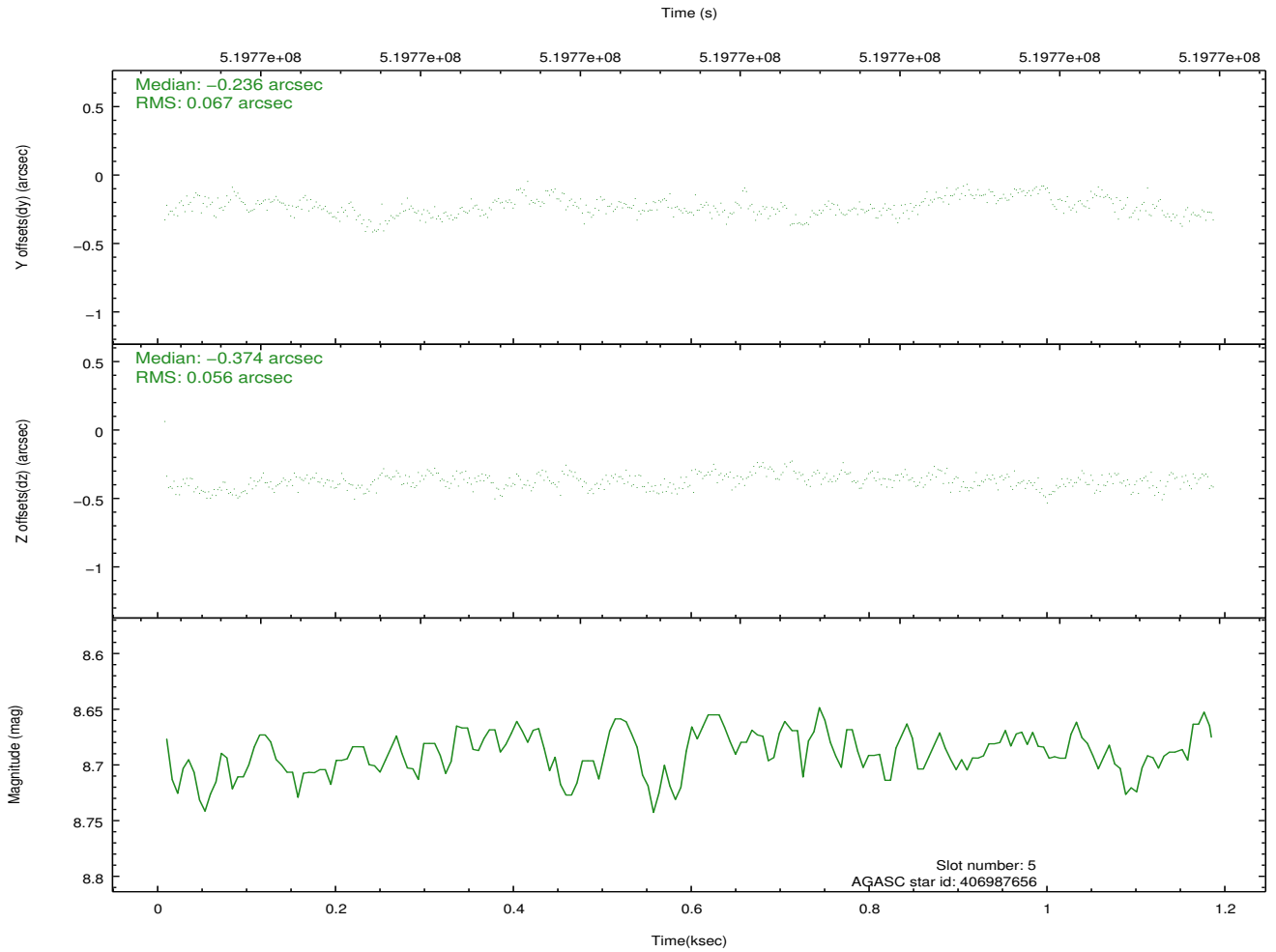
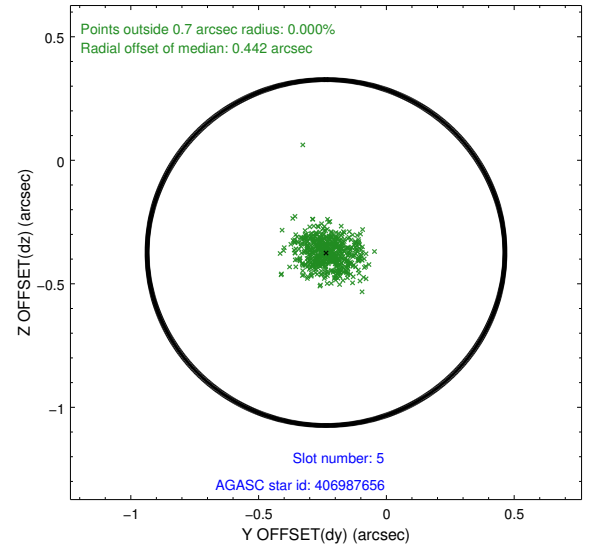
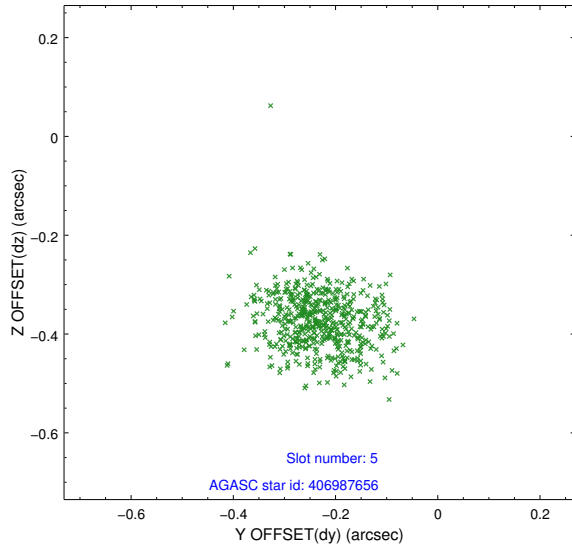
### 2.4.1 Slot 3



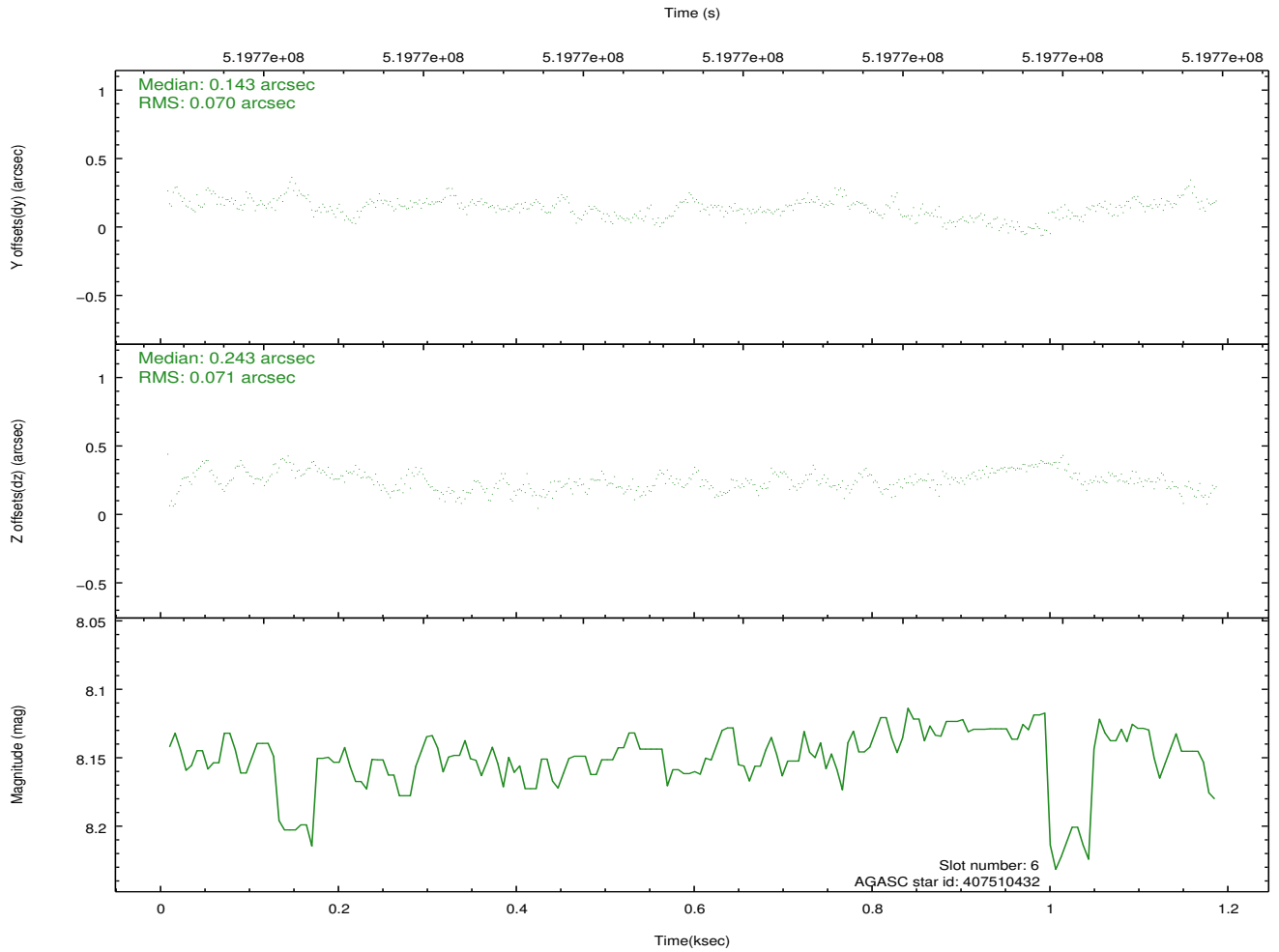
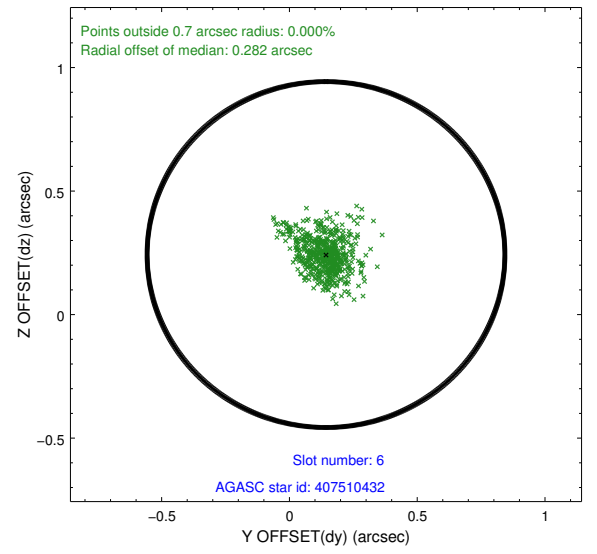
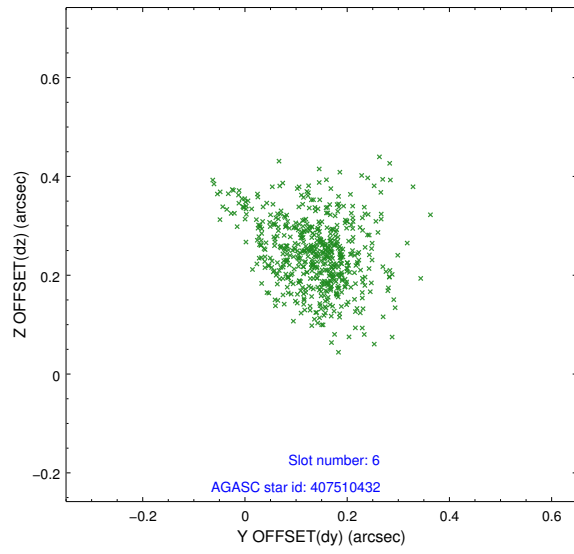
## 2.4.2 Slot 4



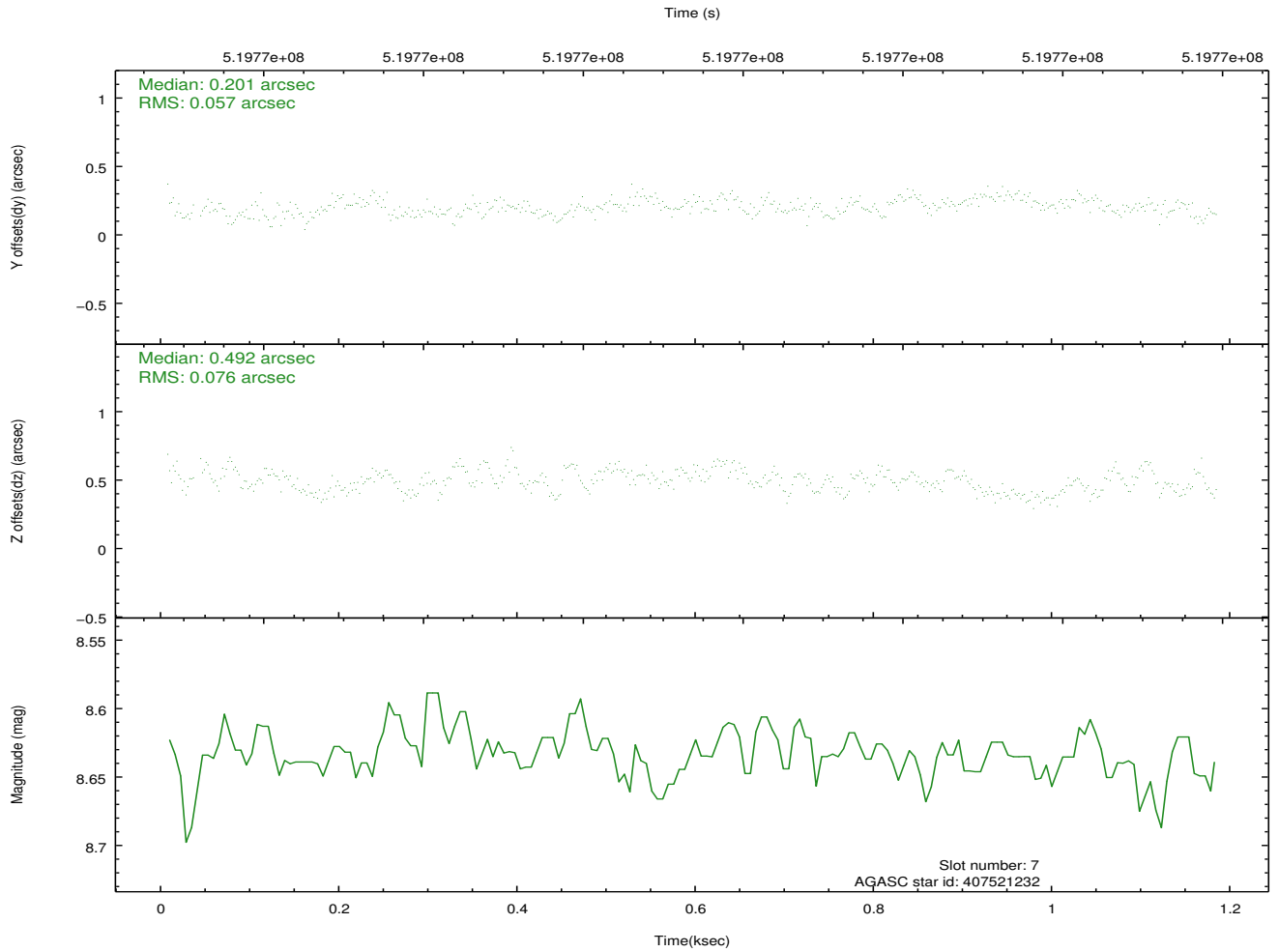
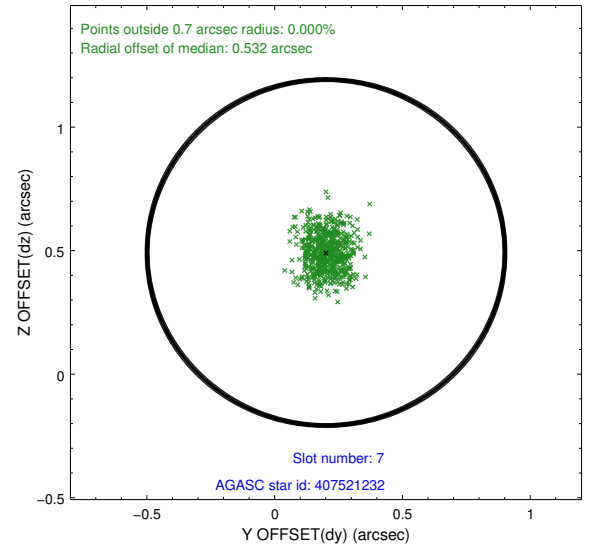
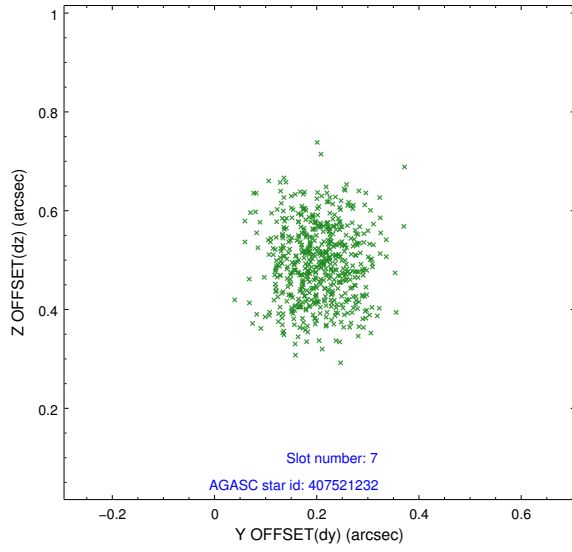
### 2.4.3 Slot 5



## 2.4.4 Slot 6

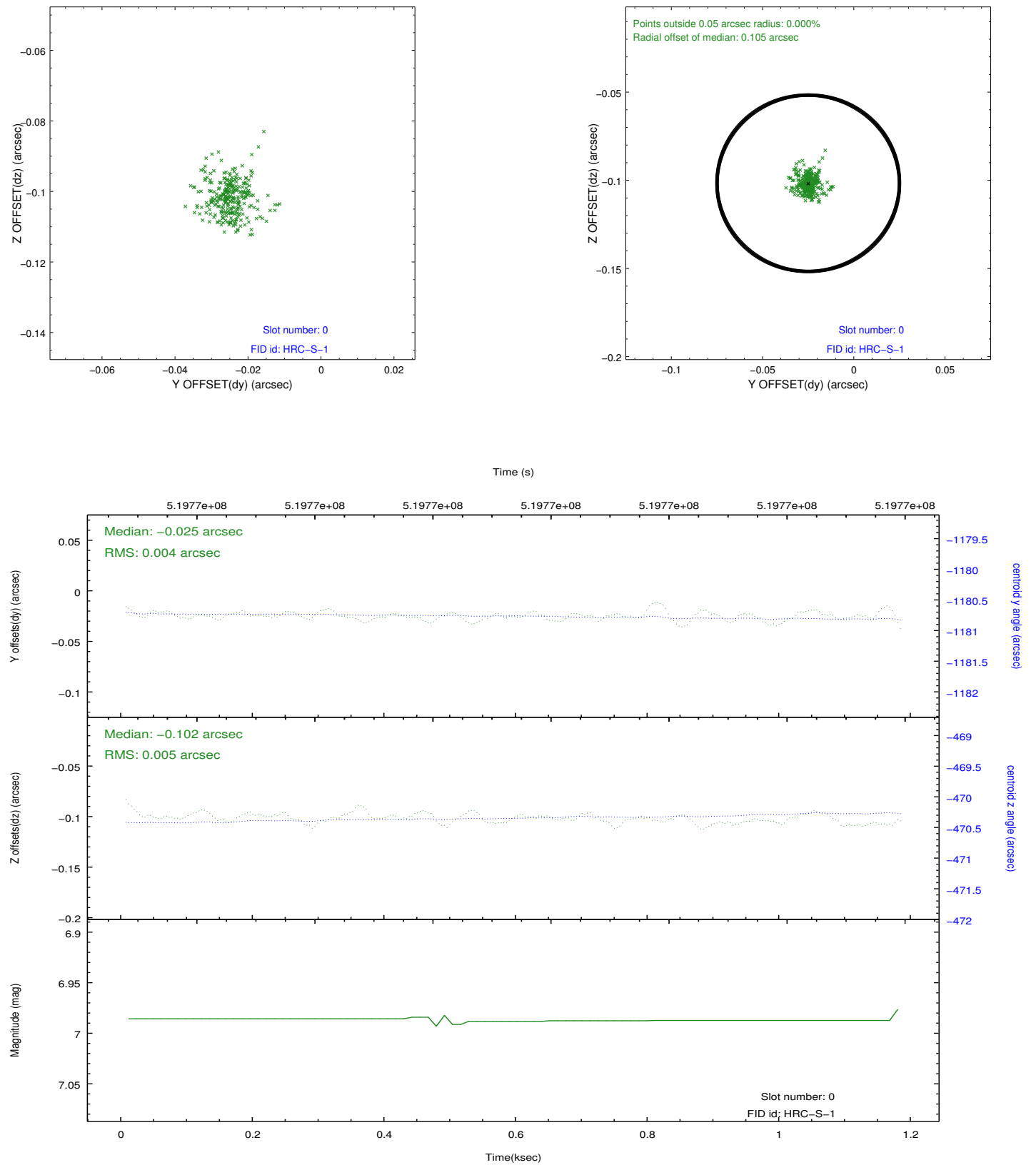


## 2.4.5 Slot 7

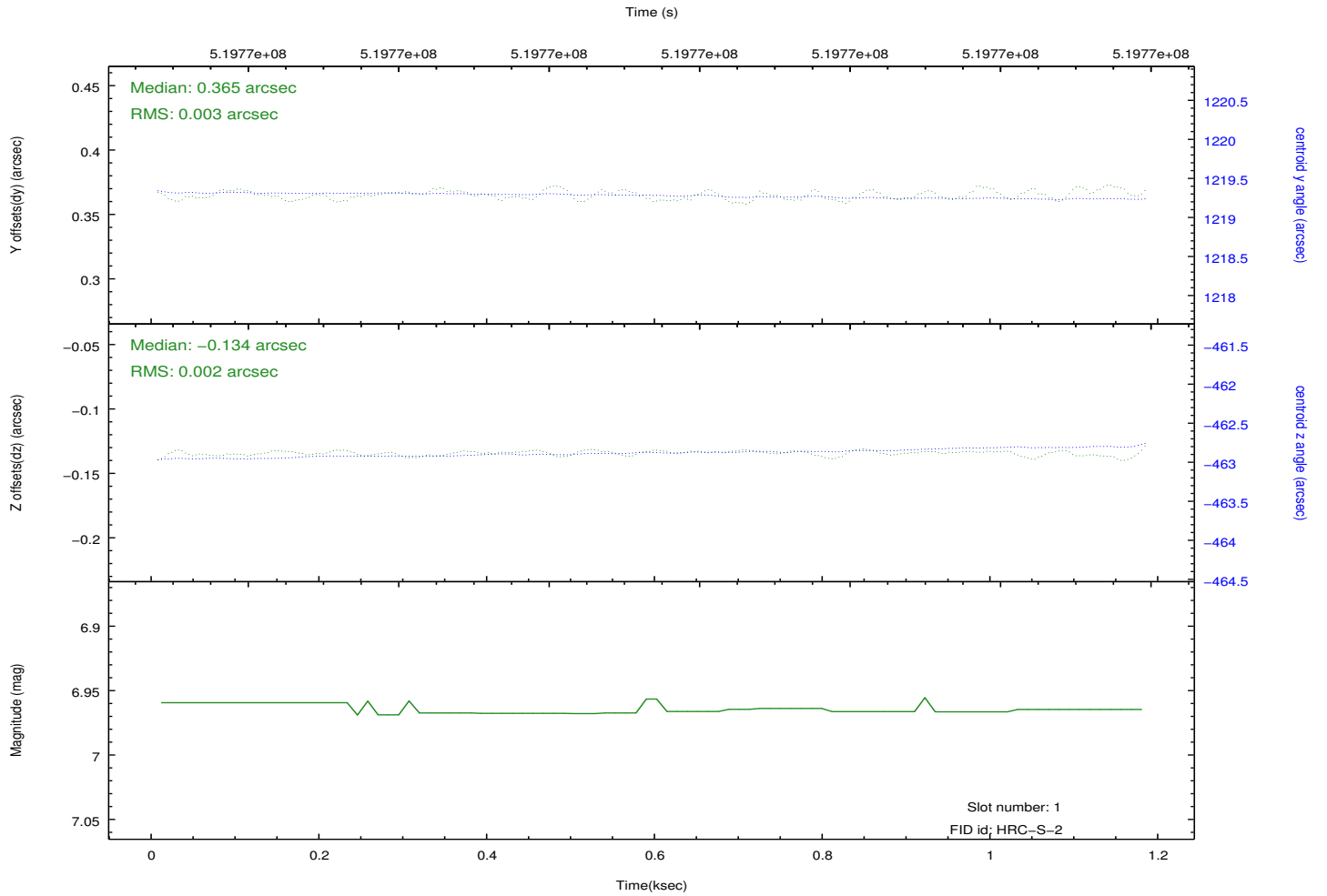
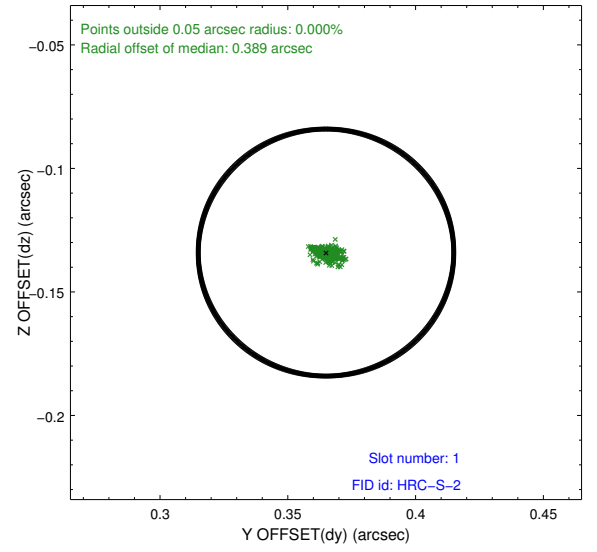
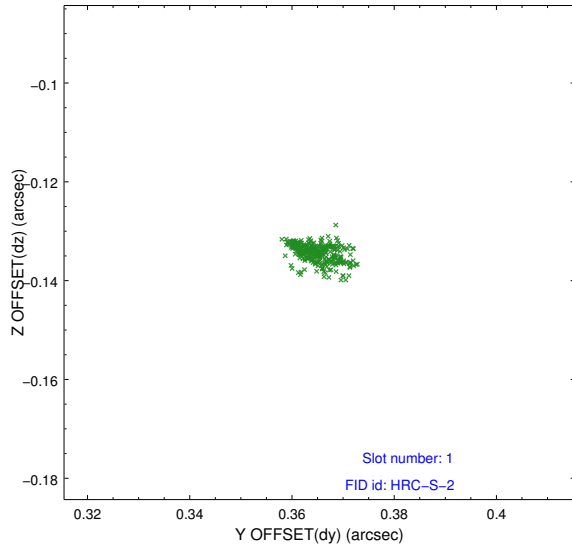


## 2.5 FID Slots

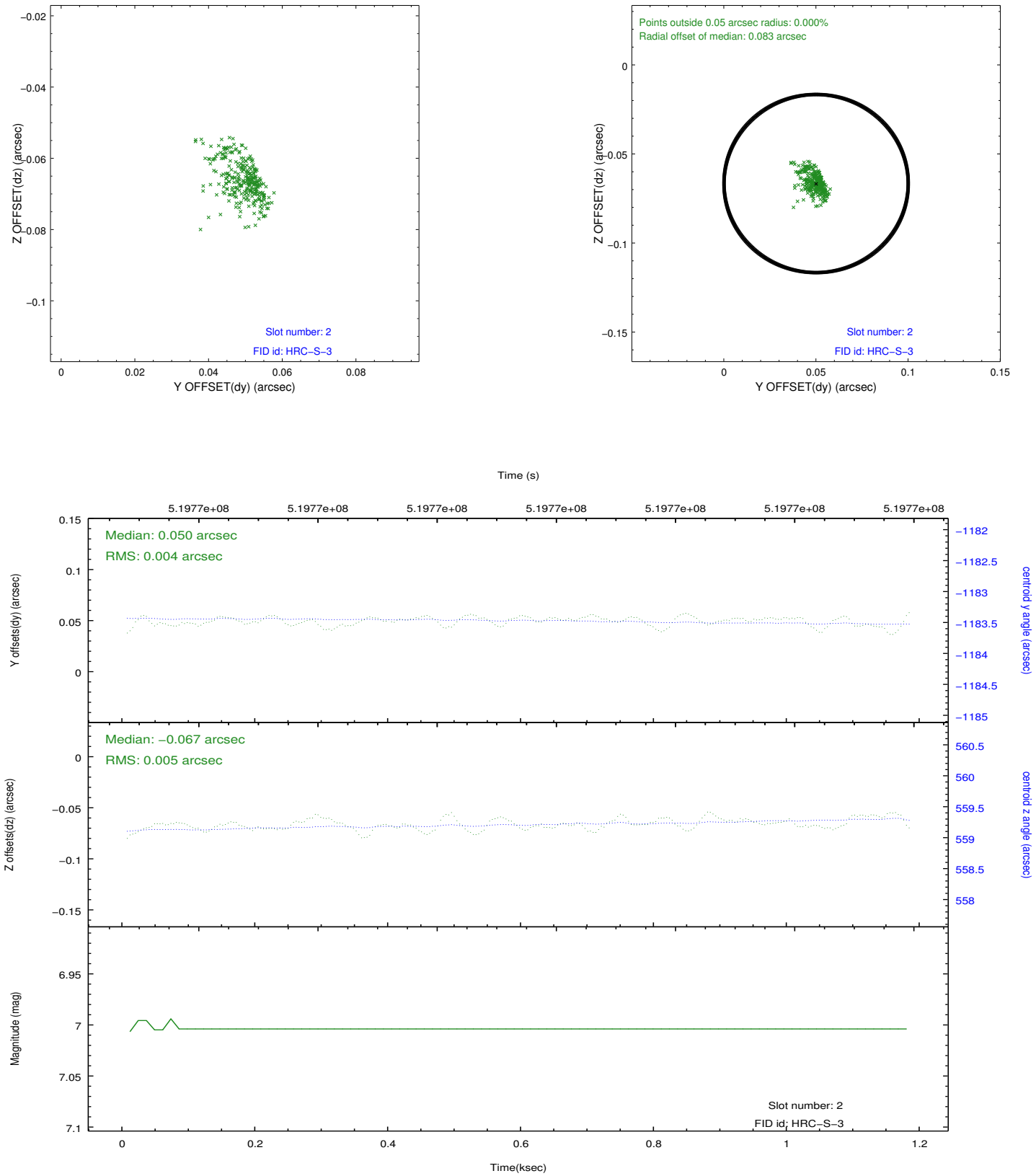
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1779813151956

## A.2 Comments

Window constraint met.

=====

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.